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Directorate of Health, Medical Services and Medical Education

Gujarat State

24<sup>th</sup> Laboratory and X-ray Technicians training course Examination-2012

Paper: Biochemistry

Time :2 hours.

Total Marks : 50

Q.1 Write short notes on ( any three)

Marks:5x3=15

- 9 a) Quality control in Laboratory 4 - (1)
- b) ELISA technique.
- c) Sample collection, storage and criteria for rejection in clinical chemistry Laboratory. / Lab safe 1-2
- d) Glucose tolerance tests 3 - (2)

(2) Describe different factors which influence enzyme activity. 283 <sup>biochem</sup> Marks: 10

Q.3 Explain in short( any four)

Marks :10

- a) Principal and uses of Electrophoresis
- b) C.S.F analysis
- c) Vaccination against infectious diseases in laboratory.
- d) Disposal of various types of Laboratory waste.
- e) Serum enzymes which indicate liver damage.

End / Rin  
column / Spectrometer

Q.4) Write the full form of following terms and explain in few lines.( any five) Marks: 10

- a) CLIA-88 . b) PPBS. c) LDL. d) ISE e) NABL ~~ISE~~

Q.5 Answer in few lines ( Any five)

Marks:5

- a) Why glucose estimation requires blood collection in fluoride vials?
- b) Why hemolysed blood samples not accepted for serum K<sup>+</sup> estimation?
- c) Why Creatinine clearance test is better than Urea clearance test for assessing kidney functions?
- d) Why albumin gives full saturation positive whereas globulin gives half saturation test positive.
- e) Why for calcium estimation in plasma heparin is used as anticoagulant?
- f) Why sample for bilirubin estimation is kept in dark place.